System, Method and Computer Program Product for Page Rendering Utilizing Transcoding

ABSTRACT

A system, method and computer program product are provided for rendering arbitrary content for display on a particular viewing device. First, content is received. The content is assembled into an object-oriented structure in a centralized format. The content in the centralized format is translated to a markup language compatible with a display environment of a viewing device using a descriptor that defines parameters of the display environment. The markup language is formatted for display on the viewing device. The formatted markup language is output to the viewing device. A system, method and computer program product are also provided for rendering arbitrary content for display on a particular viewing device: Content is received and assembled into a Document Object Model (DOM) tree in a centralized format. The content in the DOM tree is translated to a markup language compatible with a display environment of a viewing device. The markup language is formatted for display on the viewing device. Such formatting includes splitting the markup language into multiple pages for display on the viewing device. The formatted markup language is output to the viewing device. A system, method and computer program product are also provided for dividing content into multiple pages for display on a particular viewing device. Content is received and translated to a markup language compatible with a display environment of a viewing device. The markup language is split into multiple items. The multiple items are parsed into multiple pages. One page of the set of pages is output to the viewing device. The one page has a pointer to at least one of the other pages.

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